



Metabolic Wellness: Consumers Weigh Their Options

What it means to be healthy has changed significantly over the years, with consumers taking a more holistic approach. Metabolic well-being, encompassing five crucial health indicators, provides a holistic perspective of an individual's overall health condition. Consequently, it is emerging as a more **effective predictor of sustained well-being over the long term.**

A healthy weight is often perceived as an indicator of overall health, but our understanding has evolved to recognize it as just one facet of the broader wellness puzzle. Consumers now know that adopting healthy lifestyle practices like proper diet and exercise are crucial for optimal metabolic health. Today's modern consumer not only looks beyond the scale for support, they're seeking **science-backed solutions** to help them win on their wellness journey.

Nearly
30%
of the world's
population is
overweight¹

More than
1.9B
adults are
overweight¹

Almost
400M
children and
adolescents are
overweight¹

¹The World Health Organization, (2020) Fact Sheet on Obesity. <https://www.who.int/news-room/fact-sheets/detail/obesity-and-overweight>



BPL1™ Postbiotic: A Formulator's Dream

BPL1™ postbiotic is backed by ADM's gold-standard human clinical trial and is currently being investigated in additional human clinical trials, with emerging and *in vitro* evidence that supplementation may help support:

- Visceral fat reduction in combination with diet and exercise
- A healthy waist circumference in conjunction with diet and exercise
- Metabolic health pathways

WINNER: NutraIngredients Awards in 2020 as Ingredient of the Year in Weight Management

MORE APPLICATIONS, MORE BENEFITS

BPL1™ postbiotic is ideal for use in food, beverage and dietary supplement formulations. And since BPL1™ Postbiotic is heat treated, it has the ability to be used in a wider variety of food & beverage products.

BPL1™ postbiotic can be incorporated into the following applications:

- Sports nutrition
- Better-for-you snacks
- Beverages
- Dairy & plant-based chilled or non-chilled
- Dietary supplements
- Specialized nutrition

Concentration:

BPL1™ postbiotic: 100B cells/g, 300B cells/g

CERTIFICATIONS & RELEVANT INFORMATION

- QPS and GRAS
- Non-GMO
- Halal
- Kosher
- Gluten free
- Lactose free
- Dried powder



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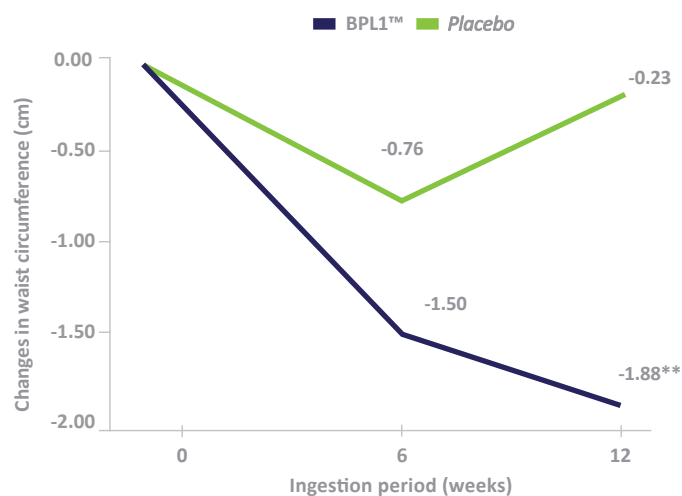
The Science Behind BPL1™ Postbiotic

BPL1™ postbiotic (*Bifidobacterium animalis* subsp. *lactis* CECT 8145) is the heat-treated version of ADM's award-winning probiotic strain with clinically documented results in aspects related to metabolic health. Clinical evidence suggests BPL1™ postbiotic may help support visceral fat reduction in combination with diet and exercise.

A randomized double-blind, placebo-controlled clinical trial to understand BPL1™ postbiotic's role in the support of metabolic health:²

- Studied women and men with waist circumferences greater than or equal to 88cm and 102cm, respectively
- Intervention: BPL1™ postbiotic 10^{10} cells daily for 12 weeks
- Multiple outcomes assessed, including anthropometric biomarkers and microbiome analysis

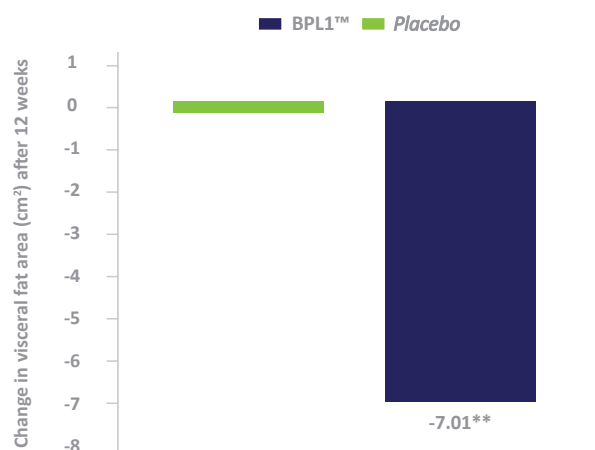
In a human clinical study, BPL1™ HT postbiotic resulted in a **significant decrease of waist circumference** compared to the placebo after 12 weeks.²



*Compared to baseline

** p<0.05 compared to placebo

After 12 weeks, subjects in the BPL1™ postbiotic intervention group showed a significant reduction in abdominal visceral fat area.* Overall, 55% of participants taking BPL1™ saw a reduction in visceral fat area.²



² Pedret, A; et al. (2019) Int J Obes (Lond). 43: 1863-1868

Study Design



135 adults

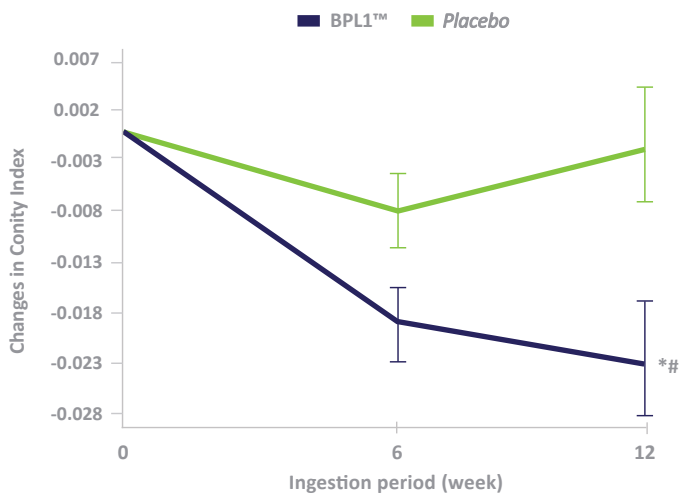
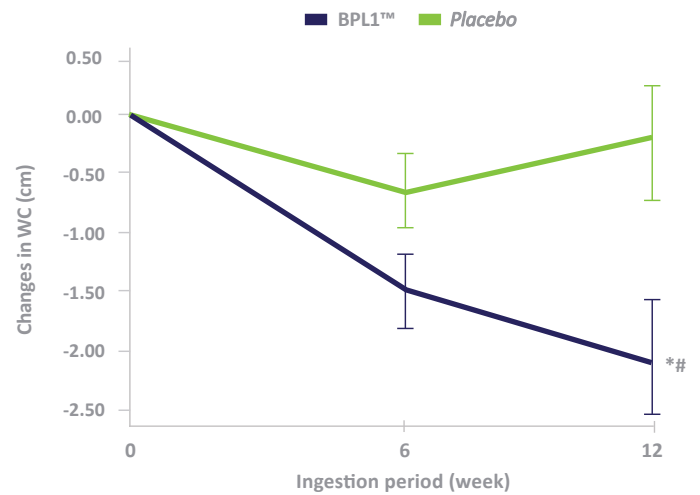
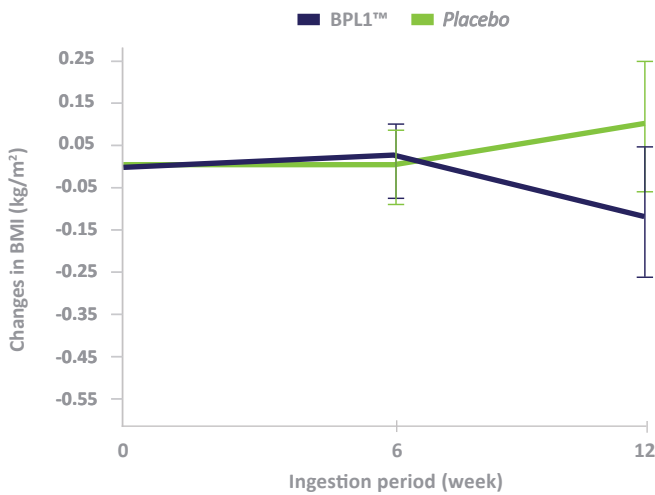


12 weeks

- Waist Circumference
- Conicity Index
- Body Mass Index (BMI)
- Visceral Fat

randomized double-blind,
placebo-controlled design

Inclusion: aged > 18 with a waist circumference (WC) ≥ 102 cm for men and ≥ 88 cm for women. **Exclusion:** WC < 102 cm for men and < 88 cm for women, and > 150 cm for both gender; BMI ≥ 40 kg/m² antibiotic treatment, diabetes, pregnancy, abnormal thyroid, anemia, alcoholism, hypocaloric diet, intake of food supplements, intestinal disease.



*p<0.05 compared to placebo



ADM'S Gold-Standard Science

ADM has 15+ years of experience and an advanced level of expertise in conducting proprietary microbiome research to deliver cutting-edge products in the marketplace.

BEYOND DIGESTION: ADM'S UNMATCHED MICROBIOME RESEARCH

Scientific exploration of the microbiome is on the rise, unveiling its capacity to positively affect various facets of metabolism and overall human wellness. Whether through the generation of bioactive metabolites, alteration of cell signaling pathways or other potential functions, the microbiome is becoming a focal point for solutions to promote metabolic health.

POSTBIOTIC SOLUTIONS OF TOMORROW

Consumers recognize the wellness benefits of probiotics. However, probiotics lack the versatility required to include them in food & beverage products without compromising overall quality. According to the International Scientific Association for Probiotics & Prebiotics, postbiotics are a “preparation of inanimate microorganisms and/or their components that confers a health benefit on the host.” As such, they are an exciting breakthrough in microbiome technology. With new, innovative postbiotic technology, this opens the door to incorporating postbiotics into a diverse range of food & beverage applications, offering consumers more convenience when looking for products with similar benefits.



MICROBIOME SOLUTIONS BPL1™ POSTBIOTIC



ADM MICROBIOME SOLUTIONS

Our premier and comprehensive line of microbiome modulating solutions includes pre, pro and postbiotics, alongside bacteriophages and enzymes. Powered by consumer demand, and fueled by gold-standard science, our portfolio gives you the microbiome solutions of tomorrow, today, with the science to support consumers on their wellness journey.

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ADM DELIVERS FOR YOU

An innovative leader in the microbiome field, ADM delivers future-forward nutrition fueled by science, with a complete range of solutions from prebiotics, to probiotic and postbiotic strains, all clinically documented to deliver health & wellness benefits. An expansive pantry of health & wellness ingredients including biotics, botanical extracts, vitamins, minerals and more means you can deliver innovative, science-driven supplements and food and beverage formulations to meet consumers' evolving functional nutrition needs. With our vertically integrated supply chain to ensure the reliability and availability of high-quality products and our dependable customer service, you get industry-leading quality solutions to ensure your success.

Unlocking Nature. Enriching Life.

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